

# **Report for 2003 IEEE Region 10 Committee Meeting**

**Penang, MALAYSIA**

**IEEE South Australia Section (R00557)**

**PO Box 53  
Elizabeth, SA 5112  
AUSTRALIA**

[http://ewh.ieee.org/r10/s\\_australia/](http://ewh.ieee.org/r10/s_australia/)

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**Part A      Section Summary**

## A.1 Executive Summary

The South Australia Section has continued to be active in organising and promoting technical activities for the benefit of its members. Highlights of 2002 included the international conference Information, Decision and Control, IDC 2002.

The IEEE South Australia Student Awards program completed its eleventh year, and a number of distinguished speakers participated in the technical activities program.

The IEEE South Australia Section launched a new venture, an annual Distinguished Lecture and Dinner, and presented its third Distinguished Service Award for service to the profession in South Australia.

The Section remains sound financially and continues to expand its range and extent of technical activity.

## A.2 Financial Report

The Section's financial position continues to be sound. A copy of the Balance Sheet at 31 Dec 02 is below and the Expense Statement for calendar 2002 as reported to IEEE is below. All amounts are in \$AUD.

### Asset/Liability

#### Current Assets

Section	\$59,099.52
Section Term Deposits:	\$60,000.00
Signal Processing and Communications Chapter	\$5,480.93
Antennas and Propagation/Microwave Theory and Techniques Chapter	\$2,945.39
Control, Aerospace and Electronics Chapter	\$5,629.92
Computer Chapter	\$1,332.54
University of South Australia Student Branch	\$5,474.67
Chapter Term Deposits	\$25,000.00

#### Loans, Advances, Borrowings

RADAR 2003 Conference Seed Funds	\$10,000.00
ANZIIS (held in trust)	(\$5,000.00)

### Expenses 2002

<b>4</b>	<b>Program Expenses</b>	
4.1	Meetings	229.00
4.2	Publications	2,899.86
4.7	Professional Activities (incl. Chapters)	12,759.99
4.8	Student Activities	1,265.70
4.85	Grants/Awards	4,520.00
4.90	Other programs	218.81
<b>5</b>	<b>Management&amp;General</b>	
5.2	Travel (R10)	3,338.45
5.5	Support to Chapters	1,200.00
5.52	Support to Regions	263.00
5.6	Other Office Expenses	37.00

## A.3 Section Officers 2002

Chair	Dr M.E. Evans	michael.evans@ieee.org
Vice Chair	Dr M. Kraetzl	miro.kraetzl@dsto.defence.gov.au
Secretary	Dr T. Ferris	timferris@ieee.org
Treasurer	Dr A. Piotrowski	andrew.piotrowski@dsto.defence.gov.au
Immediate Past Chair	Dr B. Bates	bevan.bates@ieee.org
Chair, SP/Comms Chapter	Dr P. Shoubridge	peter.shoubridge@dsto.defence.gov.au
Membership Development	A. Udina	andrew.udina@dsto.defence.gov.au
Awards	Dr M. Kraetzl	miro.kraetzl@dsto.defence.gov.au
Professional Activities	Dr M. Evans	michael.evans@ieee.org
Publications	Dr A. Piotrowski	andrew.piotrowski@dsto.defence.gov.au
Chair, AP/MTT Chapter	Dr A. Kulesa	andy.kulesa@dsto.defence.gov.au
Chair, CAES Chapter	Dr M. Pszczel	mark.pszczel@dsto.defence.gov.au
Chair, Computer Chapter	Dr T. Nguyen	thong.nguyen@dsto.defence.gov.au
Chair, Information Theory Ch.	Dr A. Grant	alex.grant@unisa.edu.au
Chair, U. of South Australia Student Branch	N. Lilith	Nimrod.Lilith@postgrads.unisa.edu.au
Branch Counsellor, U. of Sth Australia	Dr K. Dogancay	kutluyil.dogancay@unisa.edu.au
Chair, U. of Adelaide Student Branch	L. Hall	<a href="mailto:lthall@eleceng.adelaide.edu.au">lthall@eleceng.adelaide.edu.au</a>
Branch Counsellor, U. of Adelaide	A. Allison	andrew.allison@adelaide.edu.au

## Part B Organisational Activities

### B.1 Membership Development Programs

Membership has declined in the affiliate category but has grown in the student and member categories. Efforts were made towards establishing a GOLD Program in 2002. It is hoped that further progress can be made in 2002.

Membership at 31 December 2001		Membership at 31 December 2002	
Members	339	Members	341
Affiliates	65	Affiliates	54
Students	68	Students	81
TOTAL	472	TOTAL	476

The number of Senior Members has increased from 27 to 32 and a second Fellow, Assoc. Professor Michael Gibbard, was elected in 2002. The Section actively promotes membership elevation.

### B.2 Professional and Continuing Education Activities

The Section shares the responsibility for a Joint Technical Program with the Institution of Engineers Australia (IEAust), the Institution of Electrical Engineers (IEE) and the Telecommunications Society of Australia (TSA). The program consists of monthly meetings and site visits on a range of topics. The 2002 program comprised 12 activities, shown at Appendix 1 and the 2003 program (11 activities) is at Appendix 2. Other activities were organised primarily by the chapters including Distinguished Lecturer visits and short courses.

### B.3 Recognized Educational Programs

The three South Australian universities all offer Bachelor degrees in Electrical and Electronic Engineering and related fields. These are accredited by the Institution of Engineers Australia and are thereby accorded status by the IEEE.

## B.4 Student Activities

The Student Branch at the University of Adelaide continues to be active. The Branch is affiliated with the University's Clubs' Association.

The Student Branch at the University of South Australia continues to operate successfully a Centre of Excellence established with funds from the IEEE Foundation, the Section and the University.

Students at Flinders University successfully petitioned to form a student branch but must submit an acceptable constitution before chartering can occur.

The Section annually presents an award (a certificate and cheque) to a student from each university who has demonstrated outstanding performance at second-year level in a practical subject relevant to IEEE fields of interest. This program was established in 1992 and three awards are made annually. The prize amount was raised to \$500 in 2002. The recipients of the 2001 IEEE SA Student Subject Prizes were:

**Ms. Hieu Thi Ngoc Nguyen** (Department of Electrical and Electronic Engineering, The University of Adelaide) for her work in the degree course, Practical Electronic Design 2;

**Mr. Om Krishna Gupta** (School of Informatics and Engineering, The Flinders University) who distinguished himself in the overall experimental engineering components of the topics: 'Electrical Networks', 'Signals and Linear Systems', 'Analogue Signal Processing', 'Electronic Circuits', and 'Digital Circuits and Microprocessors';

**Mr Michael Chen** (School of Electrical and Information Engineering, The University of South Australia) for his work in the subject 'Signals and Systems'.

The Section has established a "Travelling Scholarship" fund intended to assist students and others to deliver conference publications at interstate or overseas venues. Four awards totalling \$5,000 were made in this category in 2002.

**Julija Tovirac** attended WOC2002, held in Banff (Alberta Canada), 17-19 July 2002, and delivered her paper, "A Simulation Study of P\_Mul Multicasting Protocol Enhanced by Ideal FEC Code.

**Lei Chen** attended the 11th IEEE Conference on Control Applications (CCA2002) to be held in Glasgow, Scotland, 18-20 September 2002, and delivered two papers, "Nonlinear Active Vibration Absorber Design for Flexible Structures", "Variable Structure Observer Design in Matrix Second-Order Formulation for Linear & Nonlinear Vibrating Systems using Velocity Measurements",

**David Haley** attended the IEEE Globecom 2002 Conference in Taipei, Taiwan, in November, delivering a paper "Iterative Encoding of Low-Density Parity-Check Codes".

**Matt Tetlow** attended the World Space Congress 2002, Houston, USA, 10-19 October 2002, and delivered a paper " Predictive Guidance for Upper Stage Ascent " in the Guidance and Control Session of the Astrodynamics Symposium.

## B.5 Awards

### Distinguished Service

An *IEEE South Australia Distinguished Service Plaque* was presented to **Dr Bevan Bates** for his significant contributions to the Section over a period of more than 10 years. Dr Bates held both Section Chair and Vice-Chair positions and was the foundation Chair of the IEEE South Australia AP/MTT Chapter.

### IEEE SA Section Lecture

The inaugural *IEEE SA Distinguished Lecture* was delivered by Professor Brian Anderson AO, FIEEE, on Friday 22 November. This occasion was well attended and was held at the Boulevard Room in the Stamford Plaza Hotel. Professor Anderson addressed the topic "*National ICT Australia, Why do we need it and What will it do*"? His address was well received and provoked animated questions and discussion.

## B.6 Conference Activities

**2002 Information Decision and Control Conference (IDC 2002), 11 – 13 February 2002**

The 2002 Information Decision and Control Conference (IDC 2002), was held at The Festival Centre, Adelaide. The Conference set out to emphasize the implementation of large interconnected and distributed systems such as military C4I systems, communication networks, distributed sensor networks, large scale distributed control systems, and multi-platform autonomous vehicle applications.

The Conference program incorporated the topic areas; Data and Information Fusion, Signal Processing and Communications, and Decision and Control of the previous IDC conference (IDC 99), with the central theme on this occasion being "Autonomous Vehicles".

Three plenary sessions addressed various aspects of the Conference theme. The Plenary program involved 4 keynote speakers and 3 plenary presenters. There were three tutorials (47 registrants) delivered in conjunction with the conference.

A total of 143 delegates were registered for the conference and tutorials from 15 countries (including 30 overseas registrants). The Technical Program consisted of 78 papers in 3 plenary sessions and 19 regular sessions (in up to 3 parallel streams).

The conference attracted over twice the financial sponsorship of IDC 99 enabling the greatly expanded keynote and plenary speaker program. The financial sponsors were: The Sir Ross & Sir Keith Smith Fund, DSTO, CSSIP, CSIRO, and the underwriter, IEEE South Australia Section, also contributed towards keynote speaker support at the Silver level. September 11 saw a significant reduction in the expected participation in this event but despite this, a surplus of approximately \$11,000 was returned.

### **RADAR 2003, 3-5 September, 2003**

Planning has continued for RADAR 2003, <http://www.plevin.com.au/radar/>, to be held in Adelaide, South Australia. This event has a five-year rotation between countries and this is the first time it is to be held in Australia.

### **Asian Control Conference, (AsCC 2004), July 2004, Melbourne**

Prof. Iven Mareels FIEEE, U. of Melbourne has successfully bid for AsCC 2004 . This is a biennial event and IEEE SA Section has been invited to participate in the management of the event.

### **2005 IEEE International Symposium on Information Theory**

The Information Theory Chapter (ACT/SA/VIC) has successfully bid for 2005 IEEE International Symposium on Information Theory, the major annual IEEE conference in Information Theory. The conference will be held in Adelaide in 2005. It will be the largest event of its kind with which the IEEE SA Section will have been involved since ICASSP 94. For such a small community this is an outstanding accomplishment for the newly formed Information Theory Chapter.

## **B.7 Chapter Activities**

### **Communications & Signal Processing Chapter**

Title *The First Workshop on the Internet, Telecommunications and Signal Processing*  
Activity Involvement in the technical program committee (referees, contributions etc.)  
Date 9-11 December, 2002  
Venue Wollongong

Title *Detection and Forecasting of Anomalous Events in Dynamic Telecommunications Networks*  
Speaker Dr Miro Kraetzl  
Date 5 August, 2002  
Venue Baltimore (to the Baltimore (MD) IEEE Communications Society)

Title *Wireless Multimedia Communications: A Telepresence Paradigm for Anyone, Anywhere, Anytime or the Dawn of the World Wide Wait*  
Speaker Professor Lajos Hanzo, IEEE Distinguished Lecturer  
Date 3-5 September, 2002  
Venue University of South Australia

Title  
Speaker Professor Albert Zomaya, CISCO Systems Professor of Internetworking, University of Sydney  
Date 5 December, 2002  
Venue DSTO Edinburgh

### **Antennas and Propagation, Microwave Theory and Techniques Chapter**

Title *Workshop on Adaptive Antennas and Space-Time Adaptive Processing*  
Date 8-9 April, 2002  
Venue CSSIP, University of South Australia

3 Lectures by Professor Tapan Sarkar, Syracuse University, NY, IEEE Distinguished Lecturer, Antenna Propagation Society.

Title *A Pragmatic Approach to Adaptive Antennas*  
Date 8 April, 2002  
Venue CSSIP, University of South Australia

Title *A Deterministic Least-Squares Approach to Space Time Adaptive Processing*  
Date 9 April, 2002  
Venue CSSIP, University of South Australia

Title *Generation of Broadband Electromagnetic Response from DC to Daylight on Your PC*  
Date 9 April, 2002  
Venue University of Adelaide

4 Lectures by P.L.E. Uslenghi, University of Illinois.  
(Lectures hosted by IEEE AP/MTT chapter, DSTO, CSSIP, U of Adelaide.)

Title *Analysis of ultra wide-band and high power microwave pulse interactions with electronic circuits and systems*  
Date 30 September, 2002 (2:30pm)  
Venue DSTO, Edinburgh

Title *Analytical and experimental studies for wireless propagation in urban environments*  
Date 30 September, 2002 (5:30pm)  
Venue CSSIP, Mawson Lakes

Title *Integral Equations for numerical modeling of electromagnetic fields in microwave systems including linear bianisotropic materials*  
Date 1 October, 2002 (10:00am)  
Venue University of Adelaide

Title *Penetration, radiation and scattering for structures containing cavities, edges and isorefractive materials*  
Date 1 October, 2002 (2:00pm)  
Venue University of Adelaide

### **Computer Chapter**

Title *Semiconductor Nonlinear Device Modelling Based on the Boltzmann Transport Equation*  
Speaker Professor George Pan, Arizona State University  
Date 22 April, 2002  
Venue University of Adelaide

Title *Internet Security and Cryptographic Protocols*  
Speaker Professor G. Sivakumar, IIT, Bombay, IEEE Distinguished Lecturer  
Date 28 May, 2002  
Venue University of Adelaide

## **Information Theory Chapter (ACT/SA/VIC)**

Title *Third Australian Communications Theory Workshop*  
Date  
Venue Australian National University

Title *Adaptive Coding and Transmission Paradigms for Wireless Channels: Turbo Coding, Turbo Equalisation and Space-Time Coding*  
Speaker Professor Lajos Hanzo, University of Southampton, IEEE ComSoc Distinguished Lecturer  
Date 4 September, 2002  
Venue University of South Australia

## **Control, Aerospace and Electronic Systems Chapter**

Title *Information, Decision and Control (IDC 2002)*  
Activity Involvement in the Organising Committee, Conference Theme: “Autonomous Vehicles”  
Date 11-13 February, 2002  
Venue Festival Centre, Adelaide

Title *Fusion of Human and Machine Intelligence*  
Speaker Professor T.J. Tarn, IEEE Distinguished Lecturer, Robotics and Automation Society  
Date 6 March, 2002  
Venue DSTO, Edinburgh

Title *NEXST Japan’s Supersonic Transport Program*  
Speaker Kimio Sakata, NAL, Japan  
Date 30 May, 2002  
Venue DSTO, Edinburgh ... also University of Adelaide

Title *Active Vibration Control*  
Speaker Dr Karl Sammut, Flinders University  
Date 6 June, 2002  
Venue DSTO, Edinburgh

Title *HyShot: Australian Scramjet. Presentation of results from the successful flight trial at Woomera*  
Speaker Professor Allan Paull, University of Queensland  
Date 26 August, 2002  
Venue DSTO, Edinburgh ... also University of Adelaide

Title *Global Hawk UAV*  
Speaker Hermann Altmann, Northrup Grumman, AIAA Distinguished Lecturer  
Date 26 September, 2002  
Venue University of Adelaide

## **B.8 Email and Newsletter Activities**

Like many other Sections, the South Australia Section is moving to rely more on electronic communications, although a printed newsletter is still being produced. Four issues of the newsletter were produced in 2002. Discussions on the most effective way to use email are continuing.

## **Part C Goals and Plans**

### **C.1 Goals**

- Sponsor at least one significant technical conference per year
- Support the Electrical Joint Technical Program in conjunction with other technical societies
- Establish a Student Branch at Flinders University
- Hold at least two technical meetings or workshops per year per chapter
- Establish a GOLD program
- Increase the level of electronic communication by distributing the newsletter electronically where possible and making greater use of the Web

- Expand and streamline the selection process for the Travel Grant program
- Coordinate closely with the IEEE Australia Council and other Sections on IEEE matters in Australia
- Investigate a Sister Section relationship with IEEE Canaveral Section

## C.2 Detailed Implementation Plans

Not available

## C.3 Proposed Budget

### Income

2	Program Revenue	Budgeted
2.5	Conference Revenue	5,000.00
3	Other Receipts	
3.1	IEEE Section Rebate	8,500.00
3.2	IEEE Region 10	3,000.00
3.34	IEEE HQ & Societies	
3.4	Interest	3,000.00
3.7	Other Receipts	
	<b>TOTAL</b>	<b>19,500.00</b>

### Expenditure

4	Program Expenses	
4.1	Meetings (Section Committee/AGM)	600.00
4.2	Publications	
	Newsletter	3000.00
4.3	Advertising (GOLD)	200.00
4.6	Educational Activities	
4.7	Professional Activities	
	Distinguished Lecture Dinner & AGM	4000.00
	Distinguished Lecturers	
	Joint Technical Program	400.00
4.8	Student Activities	
	Student Recruitment	400.00
	Student Branch Support	600.00
4.85	Grants/Awards	
	IEEE SA Student Awards	1,500.00
	IEEE SA Travel Grants	4,000.00
5	Management & General	
5.2	Travel (IEEE Region 10 meeting)	3,000.00
5.5	Support to Chapters	1,500.00
5.52	Support to Regions (Aust Council)	200.00
5.6	Other Office Expenses (misc. secretarial, audit)	50.00
	Taxes	50.00
6	Fundraising Expenses	
	<b>TOTAL</b>	<b>19,500.00</b>

## Part D Others

### D.1 Relationship with National Societies

The Section works closely with other societies in organising the Joint Technical Program (see B-2 above). Renewal of the Memorandum of Understanding, established between the Institution of Engineers Australia,

the Institution of Electrical Engineers (UK) and the IEEE, in 1998 for a three year period, which offers reduced rates for joint memberships and other benefits, is under current discussion.

## **D.2 Special Events**

Nil

## **D.3 Problems to be anticipated**

Nil

## Appendix 1

### JOINT TECHNICAL PROGRAM 2002

#### Electrical and Electronic Engineering

A program of general interest talks and visits, and a chance to network with people in your industry.

- 19<sup>th</sup> February      m.NET, AUSTRALIA'S ENTRY TO THE MOBILE INTERNET  
Host TSA            Prof. Reg Coutts, Director Centre for Telecommunications Information Networking.  
Third generation cellular technologies & high-speed wireless LANs combine to form the new North Terrace wireless internet precinct.
- 19<sup>th</sup> March            DETECTION & FORECASTING OF ANOMALOUS EVENTS IN DYNAMIC TELECOMMUNICATIONS NETWORKS,  
  
Host ITEE Soc        Dr Miro Kraetzl, Communications Division DSTO.  
Performance monitoring & fault detection through statistical techniques to analyse traffic variations and changes in topology.
- 2<sup>nd</sup> April             **VISIT** ETSA UTILITIES NETWORK OPERATIONS CENTRE  
Host IEE             Frank Crisci, ETSA Utilities.  
Centralised control centre of operations for ETSA Utilities distribution network.
- 16<sup>th</sup> April            ENGINEERING AT FLINDERS UNIVERSITY – CELEBRATING A FIRST DECADE OF SUCCESS  
Host IEAust         Prof. Andrew Downing, Flinders University.  
(Elec Branch)      Innovative ideas, multidisciplinary engineering education & research, and industry-linked programs. It's time for a health check.
- 21<sup>st</sup> May             **4.00PM VISIT** EDS ASIA PACIFIC CONTROL CENTRE  
Host IEEE            Mark Kopunic, Paul Ibberson, Team Leaders, Network Services Management, EDS.  
The EDS APCC monitors and supports customers' distributed networks throughout Australia.
- 18<sup>th</sup> June             THE NATIONAL ELECTRICITY MARKET – WHAT THE SAIIR CAN AND CANNOT DO  
Host IEAust         Bob Burgstad, Manager Electricity Office of the SA Independent Industry Regulator.  
(Elec Branch)      The responsibilities & powers of SAIIR for full retail competition, power reliability/quality, & system augmentation & extension.
- 16<sup>th</sup> July             HELICOPTER OPERATIONS (HMAS MANOORA)  
Host IEE             CAPT Steve Camporeale ARDU.  
First of class trials for the S-70A-9 Black Hawk on the HMAS Manoora. How to develop the envelope.
- 20<sup>th</sup> August          INTEGRATED SYSTEMS FOR HOSPITAL COMMUNICATIONS  
Host IEAust         Eddie Jackson, Managing Director MI-CAL.  
(ITEE Branch)      Integrating Nurse Call, paging and mobile phones with an ability to track patients.
- 17<sup>th</sup> September     RESEARCH DIRECTIONS IN THE KNOWLEDGE-BASED INTELLIGENT ENGINEERING SYSTEMS CENTRE  
Host IEEE            Dr Noel Martin, Adjunct Professor KES Centre, University of SA.  
Research and projects undertaken by the KES Centre using hybrid intelligent techniques.
- 15<sup>th</sup> October         **3.00PM VISIT** CLIPSAL INTEGRATED SYSTEMS  
Host ITEE Soc        David Arthur, Clipsal Integrated Systems, Pty Ltd.  
An inspection of the manufacturing facilities for Clipsal's networking, communications and security systems.
- 22<sup>nd</sup> October        STUDENT PAPERS NIGHT  
Host IEEE            Students from our three universities present their final year projects whilst competing in the IEE Australasian Student Prize Competition. IEEE Student Subject Prizes will also be presented at this meeting.
- 19<sup>th</sup> November      FEDSAT: AUSTRALIA'S FIRST HOME GROWN MICROSATELLITE  
NCSpE               Prof Bill Cowley, Director Institute for Telecommunications Research.  
FedSat developed by CRC for Satellite Systems will be launched in 2002 by Japan's National Space Development Agency.

## Appendix 2

### JOINT TECHNICAL PROGRAM 2003

#### Electrical and Electronic Engineering

A program of general interest talks and visits, and a chance to network with people in your industry.

- 18<sup>th</sup> February  
Host IE Aust  
(Elec Branch) FULL RETAIL CONTESTABILITY IN THE SOUTH AUSTRALIAN ELECTRICITY MARKET  
Mr Mark Evans, FRC Project Manager, ETSA Utilities.  
A look at the huge amount of work going on behind the scenes to set up the processes and systems to allow all SA electricity customers to choose their retailer. The IE Aust Electrical Branch AGM will be conducted prior to this meeting.
- 18<sup>th</sup> March  
Host IE Aust  
(Elec Branch) THE HUTCHISON 3G MOBILE DATA NETWORK  
Mr Chris Judd, State Project Manager-SA, Hutchison 3G Australia.  
Hutchison Telecoms' new third generation mobile voice and data network for Australia.
- 15<sup>th</sup> April  
Host IEEE INSIGHTS FROM THE WORLD SPACE CONGRESS 2002  
Mr Matthew Tetlow, School of Mechanical Engineering, University of Adelaide.  
The challenges of the World Space Congress, including current space trends and outlooks.
- 20<sup>th</sup> May  
Host IEE **4:30 PM VISIT: STOBIE POLE MANUFACTURING PLANT, ANGLE PARK, ETSA UTILITIES**  
Ever wondered where Stobie poles come from? See the only Stobie pole manufacturing facility in the world! To register, please RSVP to honsec.ieesa&nt@iee.org. Please wear covered shoes (preferably safety shoes or boots).
- 17<sup>th</sup> June  
Host IE Aust  
(Elec Branch) BIOMEDICAL ENGINEERING EXPERIENCES IN MALAYSIA AND BRUNEI  
Mr Tony Carlisle and Ms Anne-Louise Smith, Biomedical Engineers, Flinders Medical Centre.  
Hear contrasting views on biomedical engineering experiences in South East Asian hospitals and how they differ from Australian hospitals. IEE 2002 Student Prizes will also be presented at this meeting.
- 15<sup>th</sup> July  
Host TSA INTERNET SECURITY: A DEFENCE PERSPECTIVE  
Dr Dean Engelhardt, Senior Researcher, DSTO.  
Information security aspects of particular significance to large organisations such as Defence.
- 19<sup>th</sup> August  
Host IEEE THE DEFENCE PAYLOAD ON THE OPTUS C1 SATELLITE  
Mr Allan Jeffs and Mr Peter Kerr, Information Networks Division, DSTO.  
Hear about the Defence communication capabilities offered by Australia's newest satellite and DSTO's research program into advanced satellite ground terminals.
- 16<sup>th</sup> September  
Host IEE WIND GENERATION IN SOUTH AUSTRALIA  
Mr Paul Driver, Customer Development Manager, and Mr Mark Denton, Project Manager Starfish Hill Project, ETSA Utilities.  
A look at the new Starfish Hill wind generation plant on the Fleurieu Peninsula and associated connection to the SA electricity system.
- 21<sup>st</sup> October  
Host IE Aust  
(Elec Branch) **5:30 PM VISIT: P3C ORION FLIGHT SIMULATOR**  
FltLt Doug Hogg, Operational Mission Simulator, and SGNLDR Colin Smith, Advanced Flight Simulator, RAAF.  
The P3C Orion has undergone a mid-life refit, with the upgrading of the avionics, navigation, and radar systems. Watch the simulator go through its paces on an "operational mission". To register, please RSVP to sa@ieaust.org.au.
- 28<sup>th</sup> October  
Host IEE STUDENT PAPERS NIGHT  
Students from our three universities present their final year projects whilst competing in the IEE Australasian Student Prize Competition. IEEE Student Subject prizes will also be presented at this meeting.
- 18<sup>th</sup> November  
Host TSA **TIME TBA VISIT: HOLDEN LIMITED, ELIZABETH**  
Take a look around the plant that produces the new Monaro!  
Numbers will be limited so please register early by emailing marek.kwiatkowski@dsto.defence.gov.au.